

**DEPARTMENT OF TRANSPORTATION
OFFICE OF EXAMINATION SERVICES
SENIOR BRIDGE ENGINEER – 6TR31
TRAINING AND EXPERIENCE EVALUATION**

The SENIOR BRIDGE ENGINEER examination is being given on a Promotional basis. This examination will consist solely of this self-assessment Training and Experience Evaluation.

This questionnaire is the only phase of the exam and is designed to elicit a range of specific information regarding each candidate's knowledge, abilities, and experience to effectively perform the duties relative to the classification. Candidates are responsible for reading all of the material provided prior to completing this questionnaire. Responses will be evaluated using predetermined rating criteria. In order to obtain a position on the eligible list, a minimum rating of 70% must be attained. Please answer questions completely since incomplete responses and omitted information cannot be considered and/or assumed. *Resumes, letters of reference, and other materials **will not be evaluated or considered*** as responses to items in the Training and Experience Evaluation.

(NOTE: Failure to meet the entrance requirements and/or to complete this evaluation accurately will result in elimination from this examination.)

*Candidates who fail to follow the instructions and/or **who solicit input or assistance from others to complete this questionnaire** will be eliminated from the examination.*

IT IS IMPORTANT THAT YOU RETAIN A COPY OF THIS TRAINING AND EXPERIENCE EVALUATION FOR YOUR RECORDS. Caltrans will NOT provide you a copy of your Training and Experience Evaluation.

THIS AFFIRMATION MUST BE COMPLETED

I hereby certify and understand that the information provided by me (without assistance from others) on this Training and Experience Evaluation is true and complete to the best of my knowledge and contains no willful misrepresentation or falsifications. I understand this information may be verified. I also understand that if it is discovered that I have made any false representations, I will be removed from the examination process, removed from the list resulting from the examination, may not be allowed to compete in future examinations for State employment, and may be subject to prosecution for misdemeanor or felony offenses under California law. Additionally, State employees may have adverse action taken against them up to and including dismissal.

SIGNATURE: _____ **DATE:** _____

NAME (PRINT): _____

EXAMINATION TITLE: SENIOR BRIDGE ENGINEER

The completed Training and Experience Evaluation can be mailed and/or personally hand delivered to:

**Caltrans
Exam Services (MS 86)
P.O. Box 168036
Sacramento, CA 95816-8036**

**File in person: Caltrans
1727 30th Street, 1st Floor
Sacramento, CA 95816
(916) 227- 5181**

Facsimile (FAX) or electronically mailed (e-mailed) applications and Training and Experience Evaluations **will not** be accepted.

Failure to submit your Training and Experience Evaluation with the STD. 678 State application and a copy of a valid certificate of registration as a civil engineer issued by the California State Board of Registration for Professional Engineers will result in elimination from the examination process.



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Caltrans**CONDITIONS OF EMPLOYMENT**

Division of Human Resources – Exam and Recruitment Services
PM-EX-0631 (Rev. 01/2015)

EXAMINATION TITLE**SENIOR BRIDGE ENGINEER****EXAMINATION CODE****6TR31****DATE****CANDIDATE NAME – (PLEASE PRINT – (Last Name, First Name, Middle Initial))**

PERSONAL INFORMATION NOTICE: Pursuant to the Federal Privacy Act (P.L. 93-579) and the Information Practices Act of 1977 (Civil Code Section 1778, et seq.), notice is hereby given for the request of personal information by this form. The requested personal information is voluntary. The principle purpose of the voluntary information is to facilitate processing of information which you are providing regarding your preference in working conditions. The failure to provide all or any part of the requested information may delay processing of this form. No disclosure of personal information will be made unless permissible under Article 6, Section 1798.17 of the IPA of 1977. Each individual has the right, upon request and proper identification, to inspect all personal information in any record maintained on the individual.

If you are successful in this examination, your name will be placed on an active employment list for the location you select and referred to fill vacancies according to the conditions you specify on this form.

PLEASE CHECK THE BOX NEXT TO THE DISTRICT(S) WHERE YOU WISH TO WORK.

- | | |
|--|---|
| <input type="checkbox"/> DISTRICT 1 – EUREKA | <input type="checkbox"/> DISTRICT 7 – LOS ANGELES |
| <input type="checkbox"/> DISTRICT 2 – REDDING | <input type="checkbox"/> DISTRICT 8 – SAN BERNARDINO |
| <input type="checkbox"/> DISTRICT 3 – MARYSVILLE | <input type="checkbox"/> DISTRICT 9 – BISHOP |
| <input type="checkbox"/> DISTRICT 4 – OAKLAND | <input type="checkbox"/> DISTRICT 10 – STOCKTON |
| <input type="checkbox"/> DISTRICT 5 – SAN LUIS OBISPO | <input type="checkbox"/> DISTRICT 11 – SAN DIEGO |
| <input type="checkbox"/> DISTRICT 6 – FRESNO | <input type="checkbox"/> DISTRICT 12 – IRVINE |
| <input type="checkbox"/> 3400 – SACRAMENTO Note: District 3 does not include Sacramento | |

PLEASE CHECK ONE BOX ONLY NEXT TO THE TYPE OF APPOINTMENT YOU WILL ACCEPT.

- ☐ **A11 PERMANENT OR TEMPORARY – FULL TIME, PART TIME, OR INTERMITTENT**
- ☐ **C55 PERMANENT OR TEMPORARY – FULL TIME ONLY**
- ☐ **M44 PERMANENT OR TEMPORARY – PART TIME OR INTERMITTENT ONLY**
- ☐ **D58 PERMANENT ONLY – FULL TIME ONLY**
- ☐ **K85 TEMPORARY ONLY – FULL TIME ONLY**
- ☐ **R41 PERMANENT – PART TIME OR INTERMITTENT OR TEMPORARY – FULL TIME, PART TIME, OR INTERMITTENT**

Privacy Statement

Please notify the Caltrans promptly of any changes in your address or availability for employment.

SENIOR BRIDGE ENGINEER

Training and Experience Evaluation

Name: _____

Date: _____

PART I - EMPLOYMENT HISTORY

Instructions: Please describe your work experience as it relates to the **SENIOR BRIDGE ENGINEER** position. Begin with your most recent position. The *EXPERIENCE CODE* will be used in Part II to identify where you worked. You may include additional pages if necessary.

EXPERIENCE CODE A

Company / State Agency: _____ Job Title: _____

Employer Location: City: _____ State: _____

Dates of Employment: From: _____ To: _____

Supervisor: _____ Telephone Number: _____

EXPERIENCE CODE B

Company / State Agency: _____ Job Title: _____

Employer Location: City: _____ State: _____

Dates of Employment: From: _____ To: _____

Supervisor: _____ Telephone Number: _____

EXPERIENCE CODE C

Company / State Agency: _____ Job Title: _____

Employer Location: City: _____ State: _____

Dates of Employment: From: _____ To: _____

Supervisor: _____ Telephone Number: _____

EXPERIENCE CODE D

Company / State Agency: _____ Job Title: _____

Employer Location: City: _____ State: _____

Dates of Employment: From: _____ To: _____

Supervisor: _____ Telephone Number: _____

SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II - WORK EXPERIENCE

INSTRUCTIONS

Step 1: In the *Experience Code* column, use the codes from PART I of this questionnaire to indicate where you performed the activity and/or acquired the task or knowledge. You may list more than one code per item, if applicable.

Step 2: For each item listed on pages 5 - 13, place an "X" in the column(s) that most accurately represents the Level of Experience you have AND the Amount of Time your experience represents.

SAMPLE

PART II-WORK EXPERIENCE (continued)

Name: _____

AMOUNT OF TIME

Level of Experience: In the *Experience Code* column, use the codes from PART I of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 1: Technical (as related to transportation structures)

1. Utilizing methods, tools, and equipment used in structure design and construction

| Experience Code (Part I) | Level of Experience | I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
|--------------------------|---|--|--|---|--|--|
| | <i>I have had no training or experience with this task</i> | | | | | |
| A | <i>I have had training on this task and have performed this task under guidance and monitoring</i> | | | X | | |
| B+C | <i>I have performed this task independently</i> | | | | X | |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> | | | | | |

SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 1: Technical (as related to transportation structures)

1. Utilizing methods, tools, and equipment used in structure, design, and construction of transportation structures

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | <i>I have had no training or experience with this task</i> |
| | <i>I have had training on this task and have performed this task under guidance and monitoring</i> |
| | <i>I have performed this task independently</i> |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> |

2. Utilizing principles and methods of design practices, bridge or structure engineering as applied to transportation related structures

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | <i>I have had no training or experience with this task</i> |
| | <i>I have had training on this task and have performed this task under guidance and monitoring</i> |
| | <i>I have performed this task independently</i> |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> |

AMOUNT OF TIME

| | | | | |
|--|--|---|--|--|
| I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
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SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 1: Technical (as related to transportation structures) (continued)

3. Utilizing principles and methods of the determination and influence of deflection of the stresses in structures

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | <i>I have had no training or experience with this task</i> |
| | <i>I have had training on this task and have performed this task under guidance and monitoring</i> |
| | <i>I have performed this task independently</i> |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> |

4. Utilizing methods of stress analysis for both statically determinate and indeterminate structures

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | <i>I have had no training or experience with this task</i> |
| | <i>I have had training on this task and have performed this task under guidance and monitoring</i> |
| | <i>I have performed this task independently</i> |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> |

AMOUNT OF TIME

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|--|--|---|--|--|
| I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
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SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 1: Technical (as related to transportation structures) (continued)

5. Utilizing knowledge of estimating and inspecting work on all types of bridges, major structures, or transportation-related buildings including foundations

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | <i>I have had no training or experience with this task</i> |
| | <i>I have had training on this task and have performed this task under guidance and monitoring</i> |
| | <i>I have performed this task independently</i> |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> |

6. Developing preliminary design studies of various types of bridges, structures, or other transportation-related buildings to ensure that technical guidance and standards are integrated appropriately into the project development process while meeting customer needs

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | <i>I have had no training or experience with this task</i> |
| | <i>I have had training on this task and have performed this task under guidance and monitoring</i> |
| | <i>I have performed this task independently</i> |
| | <i>I have performed this task independently and have trained and supervised others on this task</i> |

AMOUNT OF TIME

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|--|--|---|--|--|
| I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
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SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 2: Analytical

7. Utilizing knowledge of department purposes, organization, and activities including knowledge of the Division of Engineering Services, Structure, Maintenance, and Investigations as related to transportation structures

| Experience Code (Part I) | Level of Experience |
|--------------------------|--|
| | <i>Limited ability (would require training/exposure to perform task)</i> |
| | <i>Average ability (could perform activity with guidance)</i> |
| | <i>Very good ability (could perform activity independently)</i> |
| | <i>Excellent ability (could provide training or guidance to others)</i> |

8. Serving as the structure representative or resident engineer for large or complex structure projects, ensuring that plans and specifications are implemented appropriately through the administrative and construction process

| Experience Code (Part I) | Level of Experience |
|--------------------------|--|
| | <i>Limited ability (would require training/exposure to perform task)</i> |
| | <i>Average ability (could perform activity with guidance)</i> |
| | <i>Very good ability (could perform activity independently)</i> |
| | <i>Excellent ability (could provide training or guidance to others)</i> |

AMOUNT OF TIME

| | | | | |
|--|--|---|--|--|
| I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
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SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 2: Analytical (continued)

| 9. Making and developing original investigations in the preparation of unusual or complicated design or studies to provide engineering recommendations | | | AMOUNT OF TIME | | | | |
|---|---|--|--|--|---|--|--|
| Experience Code (Part I) | Level of Experience | | I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
| | Limited ability (would require training/exposure to perform task) | | | | | | |
| | Average ability (could perform activity with guidance) | | | | | | |
| | Very good ability (could perform activity independently) | | | | | | |
| | Excellent ability (could provide training or guidance to others) | | | | | | |
| 10. Advising resident and assistant resident engineers concerning structure construction issues to ensure safety, quality, and contract compliances are met | | | | | | | |
| Experience Code (Part I) | Level of Experience | | | | | | |
| | Limited ability (would require training/exposure to perform task) | | | | | | |
| | Average ability (could perform activity with guidance) | | | | | | |
| | Very good ability (could perform activity independently) | | | | | | |
| | Excellent ability (could provide training or guidance to others) | | | | | | |

PART II-WORK EXPERIENCE (continued)

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an “X” in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 2: Analytical (continued)

11. Conducting studies to determine the safe loading on existing structures utilizing engineering knowledge, experience, and departmental policies and procedures

| | Experience Code (Part I) | Level of Experience |
|--|--------------------------|---|
| | | Limited ability (would require training/exposure to perform task) |
| | | Average ability (could perform activity with guidance) |
| | | Very good ability (could perform activity independently) |
| | | Excellent ability (could provide training or guidance to others) |

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| 12. | Representing the department on complex special assignments and research studies to promote departmental interests and influence national standards using diplomacy and engineering knowledge and expertise |
|-----|--|

| | Experience Code (Part I) | Level of Experience |
|--|--------------------------|---|
| | | Limited ability (would require training/exposure to perform task) |
| | | Average ability (could perform activity with guidance) |
| | | Very good ability (could perform activity independently) |
| | | Excellent ability (could provide training or guidance to others) |

13. Analyzing situations and adopting an effective course of action

| | Experience Code (Part I) | Level of Experience |
|--|--------------------------|---|
| | | Limited ability (would require training/exposure to perform task) |
| | | Average ability (could perform activity with guidance) |
| | | Very good ability (could perform activity independently) |
| | | Excellent ability (could provide training or guidance to others) |

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| I possess less than one (1) year of experience performing this task at this level of experience. |
| I possess one (1) to two (2) years of experience performing this task at this level of experience. |
| I possess two (2) to four (4) years of experience performing this task at this level of experience. |
| I possess four (4) to five (5) years of experience performing this task at this level of experience. |
| I possess more than five (5) years of experience performing this task at this level of experience. |

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SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 2: Analytical (continued)

14. Preparing correspondence and reports

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | Limited ability (would require training/exposure to perform task) |
| | Average ability (could perform activity with guidance) |
| | Very good ability (could perform activity independently) |
| | Excellent ability (could provide training or guidance to others) |

15. Acting in a staff capacity to perform engineering studies as related to transportation structures

| Experience Code (Part I) | Level of Experience |
|--------------------------|---|
| | Limited ability (would require training/exposure to perform task) |
| | Average ability (could perform activity with guidance) |
| | Very good ability (could perform activity independently) |
| | Excellent ability (could provide training or guidance to others) |

AMOUNT OF TIME

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|--|--|---|--|--|
| I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
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PART II-WORK EXPERIENCE (continued)

Name: _____

Amount of Time: Place an “X” in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 3: Lead Responsibilities

16. Acting in a lead capacity over engineers, technicians, and/or administrative staff by providing clear and concise instructions and assistance

6TR31 – SENIOR BRIDGE ENGINEER

SENIOR BRIDGE ENGINEER Training and Experience Evaluation

PART II-WORK EXPERIENCE (continued)

Name: _____

Level of Experience: In the *Experience Code* column, use the codes from **PART I** of this form to indicate where you performed the activity or task. You may list more than one code per item, if applicable.

Amount of Time: Place an "X" in the column(s) that most accurately represents the amount of time each level of experience represents. (Leave columns blank that do not apply to you).

SECTION 3: Lead Responsibilities (continued)

19. Facilitating in the training and development of newer staff by providing feedback and mentoring/guiding staff in relation to bridge engineering duties

| Experience Code (Part I) | Level of Experience |
|--------------------------|--|
| | <i>Limited ability (would require training/exposure to perform task)</i> |
| | <i>Average ability (could perform activity with guidance)</i> |
| | <i>Very good ability (could perform activity independently)</i> |
| | <i>Excellent ability (could provide training or guidance to others)</i> |

AMOUNT OF TIME

| | | | | |
|--|--|---|--|--|
| I possess less than one (1) year of experience performing this task at this level of experience. | I possess one (1) to two (2) years of experience performing this task at this level of experience. | I possess two (2) to four (4) years of experience performing this task at this level of experience. | I possess four (4) to five (5) years of experience performing this task at this level of experience. | I possess more than five (5) years of experience performing this task at this level of experience. |
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